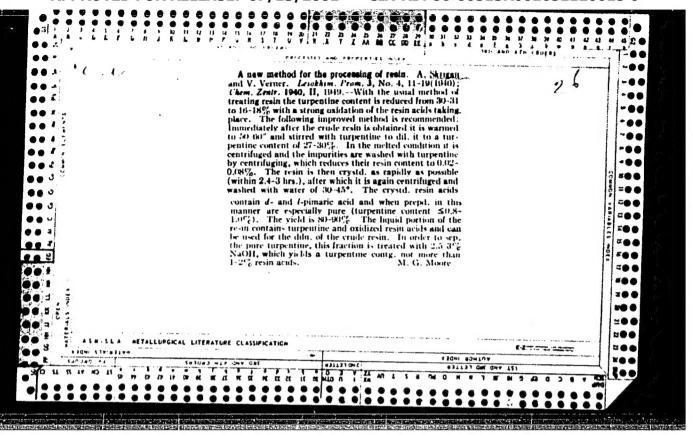
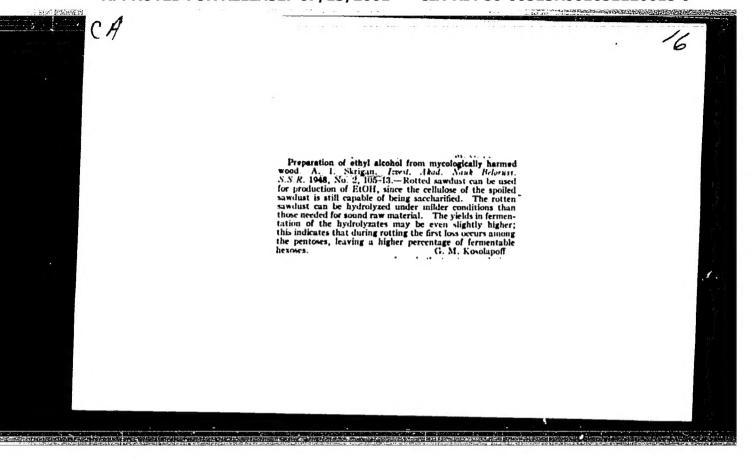


ZACEK, K.; ADAM, E.; ADAMOVA, V.; BURIAN, V.; REZACOVA, D.; SKRIDLOVSKA, E.; VANECKOVA, N.; VONKA, V.

Vaccination with live poliomyelitis vaccine (Sabin). Virological and serological control of mass vaccinations performed in the Czechoslovakian SSR during 1958-59 and in 1960, Cas.lek.cesk. 102 no.46:1257-1268 N³63.

1. Ustav epidemiologie a mikrobiologie v Praze (reditel prof. dr. K.Raska, DrSc.) a Ustav ser a ockovacich latek v Praze (reditel MUDr.J.Malek).

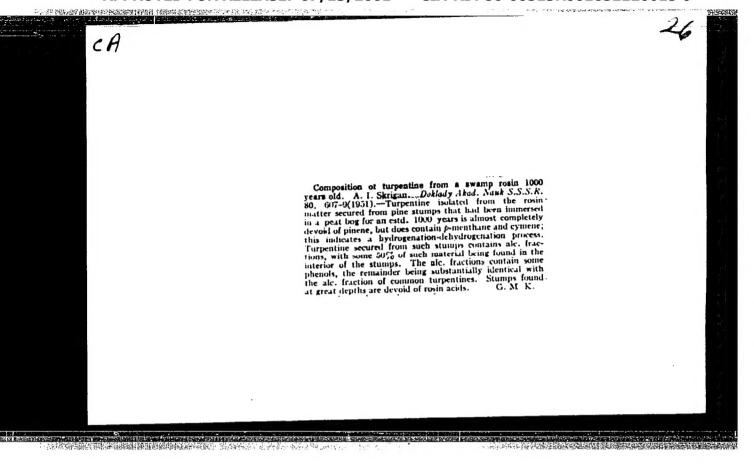




SKRIGAN, A.I.

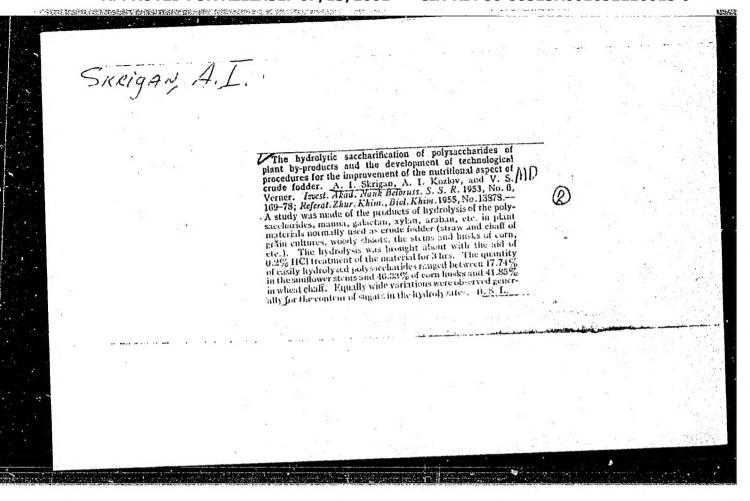
SKRIGAN A.I. AND VERGER V... "The effect of thermic turgentine removal on the chemical compisition of tar-impregnated pine wood", Izvestiya akad. nauk BSSR 1948 no. 6

SG: U-3261 10, April 55. (Letopis 'Zhurnal 'Nykh Statey No. 11 1949)



"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001651120015-9



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Fuel Abst. Vol. 15 No. 4 Apr. 1954 Natural Solid Fuels: Sources and Properties PRINTION OF FEAT DEPOSITION OF FIGHTELITE CIL OBTAINED FROM DEEP TAR FORMATION OF FEAT DEPOSITS OF MILLENNIAL AGE, Skrigan, A.I. (Dckl. Akad. Mauk SSGR (Rep. Acad. Sci. U.S.S.R.), 1953. vol. 90, 395-398; abstr. In Chem. Abstr., 1953, vol. 47, 10204). Fichtelite oil from 500, 3000, and 140,000 year old tars was examined after extraction with ether from the primary tar. With increased age the content of rosin acids declines (from 34.6% to 0%), while the hydrocarbon content rises; retene (from 12.4 to 21.67%) and fichtelite (from 25.3 to 45%) in the 500-3000 year period. The oldest specimen had much petroleum ether-insoluble matter and contained no rosin acids and only traces of fichtelite and retene. Pure fichtelite, m. 46-470, 020 0.938, n20 1.5052; retene, m. 99-1000, d20 1.1252, n20

1.7970; picrate, m. 123°; adduct with 1,3,5-trinitrobenzene, m. 139°; retenequinche, m. 197-197.5°. Examination of pine sturps from 20 to 3000 years old indicates that the acid components, just like terpenes, undergo isomerication and delaydrogenation and reduction, one mole of acid yielding 2 moles of fichtelite and 1 of retene. The primary tar acids decline with age and vanish at the 500 year level; abjects acid rises up to maximum at 50 years, then declines rapidly; pyrabletic acid reaches a maximum at 500 years. Fichtelite and retene continue to increase in concentration even at the 3000 year level. It is believed that sapinic and lawyo-pinaric acids are converted to abject acid, which yields tetrahydroabletic acid and dehydroabletic acid; the former yields fichtelite by loss of carbon dicxide, while retene forms similarly from the dehydroabletic acid, with additional loss of methans.

C.A.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001651120015-9

SKRIGAN, A.T. USSR/ Chemistry - Animal fodder

Card 1/1

Pub. 86 - 16/36

Authors

Title

Skrigan, A. I., Cand. of Chem. Sc.

Chemical-biological processing of raw fodder

Periodical

Priroda 2, 93-95, Feb 1954

Abstract

Chemical-biological methods of processing raw animal fodder for the purpose of increasing its nutritive value are described. Two USSR references (1939 and 1952). Drawing.

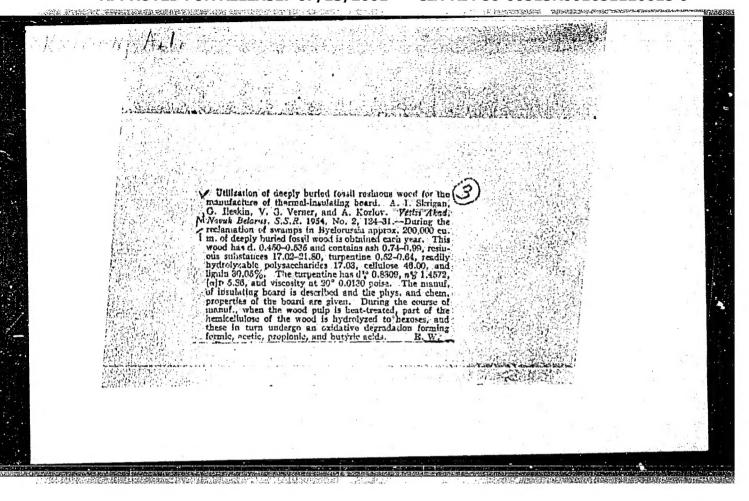
Institution :

Acad. of Sc., Byeloruss-SSR, Institute of Chemistry

Submitted

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CIA-RDP86-00513R001651120015-9



SKRIGAN, A.I.

USSR/Chemistry - Chemical technology

Card 1/1

Pub. 22 - 27/47

Authors

Skrigan, A. I.

Title

Chemical composition of wood pulp of a thousand-year-old pine

Periodical

Dok. AN SSSR 100/6, 1135-1137, Feb 21, 1955

Abstract

Data are presented regarding the elementary and chemical composition of wood pulp derived from pines of various age. The results obtained from studying wood pulp of various age are described. Eleven USSR references (1934-1954). Table; graph.

0, 0,

Institution :

Academy of Sciences Byelorussian SSR, Institute of Chemistry

Presented by :

Academician B. A. Arbuzov, August 2, 1954

SKRIGAN, A.I.; SHISHKO, A.M.; ZHBANKOV, R.G.

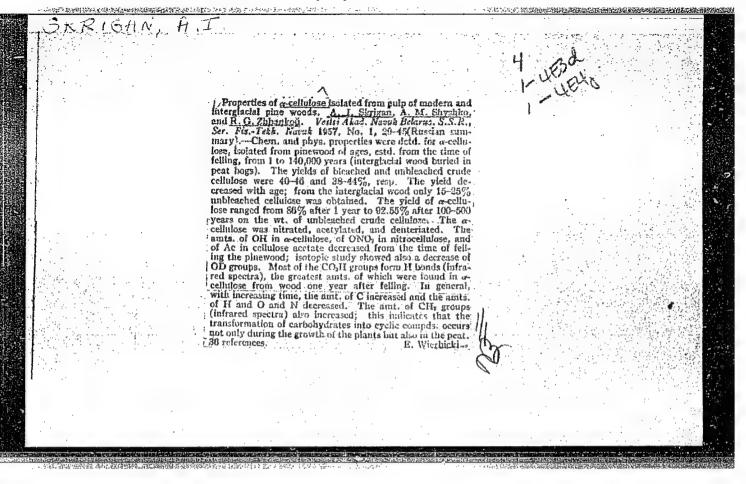
Investigation of celluloses obtained from wood and flax waste.

Dokl. AN BSSR 1 no.1:17-19 J1 '57. (MIRA 11:3)

l. Predstavleno akademikom AN BSSR B.V. Yerofeyevym. (Cellulose)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001651120015-9



WALLEY AL

AUTHOR TITLE SKRIGAN, A.I., SHISHKO, A.E., ZHBANKOV, R.G., 20-1-31'54
The Properties of a-Cellulose Obtained from Thousand Years Ol. Fossil Pine Wood.

(O svojstvakh a-tsellyulozy, vydelennoy iz iskopayemoy drevesiny sosny tysyacheletneso vozrasta -Russian)

PERIODICAL

Doklady Akad. Nauk SSSR, 1957, Vol 115, Nr 1, pp 114 - 117 (U.S.S.R.)

ABSTRACT

The production of cellulose and hemicellulose from pine trunks of peat-bogs is of practical importance, especially for the Belorussian SSR. The investigation of cellulose obtained from wood of various age; (from 1 to 140.000 years old) facilitates the disclosure of processes of chemical transformations which took place at relatively low temperatures in the course of many thousand years and were not complicated by any foreign factor. The investigation of terpenes, resinous acids and the wood of thousand years old pines showed that with aging hydrgenation and dehydrogenation processes take place inside the plant tissue, analogous to such a catalysis by Zelinskiy. Processes of decarboxylation and the splitting off of side-chains of the nolecules take place at the same time. The dehydration processes and the disproportioning of hydrogen lead to the formation of resinous acids of hydrocarbons. From the carbonhydrat part of the wood carbocyclic compounds develop. For an investigation of the transformation of a-cellulose as dependent on age also were used physical methods besides chemical ones, especially infrared spectroscopy. The celluloses were obtained by the sulphate method. a-celluloge was isolated by treatment of bleached and non-bleached cellulose with 17% NaOH solu-

Card 1/3

The Properties of a-cellulose Obtained from Thousand 20-1-31/54 Years Old Fossil Pine Wood.

tion. The content of a-cellulose is highest in 100-150 year old celluloses.lowest in young ones (1 month to 1 year). After 150 years its content decreases. The interglacial periods contain 88%, and contain the least alkali-soluble substances. Thus, the young celluloses have the most homogeneous composition, the inter-glacial ones the most heterogeneous one. From the table it may be seen that the carbon content slightly increases with increasing age, the content of oxygen and hydrogen decreases. Ill.1 shows the spectra of a-celluloses obtained from pine wood. A comparison of the value of the coefficient K in the sphere~3,u_for celluloses of various age shows that the number of hydroxyls is highest in the youngest, i.e. the June-a-cellulose. With increasing age this number slightly decreases. The decrease of the number of hydroxyles in the inter-glacial α-cellulose is not connected with the occurrence of a double bond C=C. An intensive band at 3333 cm-1 occurs in all spectra of all ages. This indicates that most of the hydroxyles participate in the hydrogen bond, to the highest degree in the youngest celluloses. Further a-cellolose nitrates were produced. Table 2 shows that the degree of polymerization of u-celluloses decreases with age. The spectral analysis of nitro-α-celluloses of various ages confirms the fact that the number of nitro groups is highest in those that are 1 year old. The 100 years old ones contain about the same amount. Considerably less is contained in interglacial cellulose. The a-cellulose produced from pine wood of

Card 2/3

(MIRA 11:10)

SKRIGAN, A.I.; MURASHKEVICH, T.V.

Properties of lignin removed from petrified pines thousands of years

1. Predstavleno akademikom AN BSSR B.V.Yerofeyevym.
(Lignin) (Trees, Fossil)

old. Dokl. AN BSSR 2 no.7:308-310 Ag 158.

Skrigan, A. and others.

Heat decomposition of oriquettes of wood-hydrolytic lignin. p. 109.

BIOLOGICH SKAIA NAUKA: SELSKOMU L LASNOMU SKOZIAISTVU. (Latvijas PSR Zinatnu ekademija. Biologijas Zinatnu nodala) Riga, Latvia, no. 16, 1958. In Russian.

Monthly List of East European Accessions (EEAI) LC, Vol, 8, no. 8, August 1959. Uncl.

SKRIGAN, A.I.; SHISHKO, A.M.; ZHBANKOV, R.G.

Composition of cellulose extracted from the wood of swamp pine stumps. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no. 7:110-125 *59. (MIRA 14:4)

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SKRIGAN, A.I.

Study of pine stumps, waste products of peat works, and preparation of chemicals and building materials from them. Sbor. nauch. rab. Inst. fiz. org. khim. AN BSSR no. 7:126-140 159. (MIRA 14:4) (Pine)

SKRIGAN, A.I.; MURASHKEVICH, T.B.

Properties of lignin extracted from pine wood of different ages. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no. 7:150-158 159.

(MIRA 14:4)

(Lignin)

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(MIRA 14:4)

SKRIGAN, A.I.; BELEN'KAYA, T.V.

Change in the carbohydrate composition of pine wood as a function of age. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no. 7:159-173

(Pine) (Carbohydrates)

159.

STEPANOV, E.I., akadaj un lana, a.I.; SHISHAO, A.V.; THRAHKOV, R.G.

Bonding between collialose and ubstances associated with it in plant tissue. Doll. al. 35 a 135 no.3:624-626 N '60. (MIRA 13:12)

1. Institut fiziki Akademii nauk BBSR i Institut fiziko-organicheskoy khimii Akademii nauk BBSR (for Stepanov). (Cellulose)

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SKRIGAN, A. I. [Skryhan, A. I.]; BELEN KAYA, T. V.; SHISHKO, A. M. [Shyshko, A. M.]; AFONSKAYA, I. A.

Investigation of low-ash sapropels from the swamps and lakes of the White Russian S.S.R. Part 1. Investigation of the carbohydrate contents of some kinds of low-ash sapropels. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.3:75-83 '61. (MIRA 14:10)

(White Russia—Sapropels)

BARDYSHEV, I.I.; SKRIGAN, A.I.; ROMAN, L.V.; KOST'YANOVA; S.S.

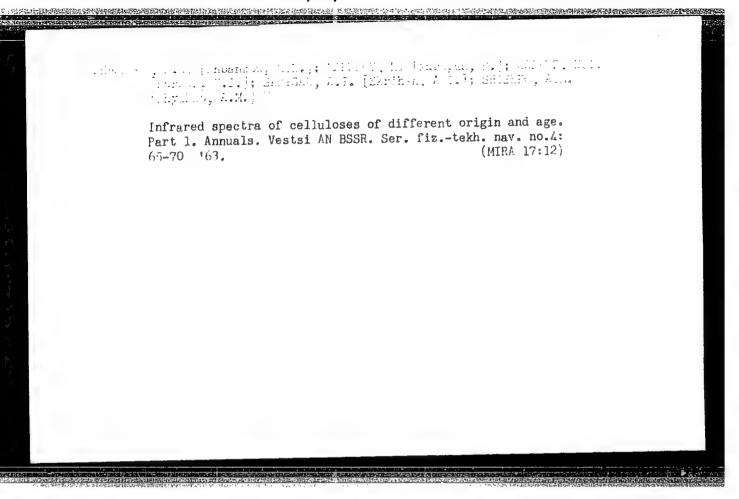
Chemical composition of dry-distilled turpentine obtained from pine stumps which remained in peat deposits for a thousand years. Zhur. prikl. khim. 34 no.2:440-445 F '61. (MIRA 14:2)

THE REPORT OF THE PROPERTY OF

1. Belorusskiy lesotekhnicheskiy institut imeni S.M.Kirova i Institut fiziko-organicheskoy khimii EN BSSR. (Turpentine)

SKRIGAN, A.I. [Skryhan, A.I.]; SHISHKO, A.M. [Shyshko, A.M.]; ZHBANKOV, R.G. [Zhbankou, R.H.]

Action of caustic soda on cellulose. Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.4:61-67 162. (MTRA 18:4)



ZHBADHOV, R.G. [7hbankon, R.H.]; GARREY, N.I. [Harbuz, M.I.]; STISHKO, A.M. [Shyahko, A.M.]; SERIGAN, A.I. [Skryhan, A.I.]; BUGAYELOK, A.A. [branchak, A.A.]]

Infrared spectra of celluloses of different origin and age. Vestsi AN BOSE. Ser. fiz.-tekh. nav. no.4:43-47 164. (MIRA 18:3)

ZHBANKOV, R.G. [Zhbankou, R.N.]; GARBUZ, N.I. [Harbuz, M.I.]; SKRIGAN, A.I. [Skryhan, A.I.]; SHISHKO, A.M. [Shyshko, A.M.]

Infrared spectra of celluloses of different origin and age. Part 3. Cellulose from pulp of different age. Vestai AN BSSR. Ser.fiz.-mat. nav. no.2:95-98 '65.

(MIRA 19:1)

s/081/61/000/021/090/094 B107/B147

AUTHORS:

Osipenko, F. G., Belen'kaya, T. V., Skrigan, Ye. A.

TITLE:

Study of the carbohydrate composition of hemicelluloses of

sulfite and sulfate viscose cellulose

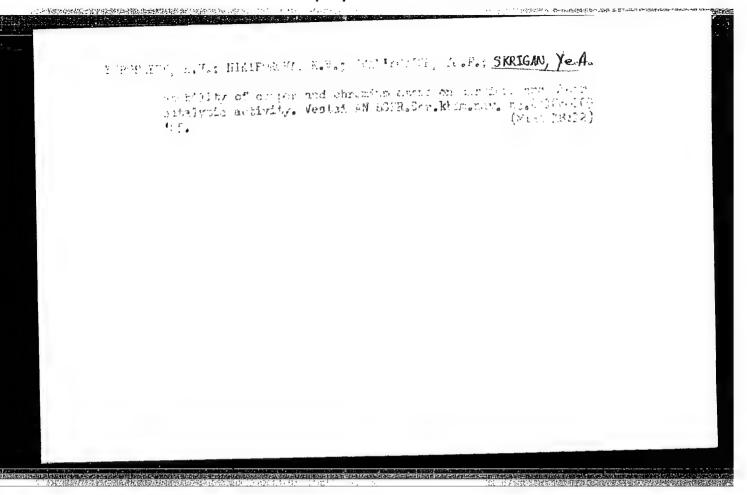
PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 469, abstract

21P208 (Dokl. AN BSSR, v. 5, no. 4, 1961, 159-162)

TEXT: The authors give investigation results of the carbohydrate composition and optimum conditions for the hydrolysis of hemicelluloses separated from centrifuged lyes in mercerization of sulfite and sulfate cellulose at the Mogilevskiy zavod iskusstvennogo volokna (Mogilev Plant of Synthetic Fibers). Abstracter's note: Complete translation.

Card 1/1



S'KRIGADON, A

USSR/Optics - Spectroscopy.

K-0

Abs Jour

: Referat Zhur - Fizika, No 3, 1957, 7808

Author

Title

: Korostyleva, L.A., Skriganov, A.R., Yashin, N.M.

Inst

: Hyperfine Structure of Spectral Lines and of Spins of Nuclei U233 and Pu238.

Orig Pub

: Izv. AN SSSR, ser. fiz., 1955, 19, No 1, 31-34

: See Referat Zhur Fizika, 1956, 5367. Abstract

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- 75 -

CIA-RDP86-00513R001651120015-9" APPROVED FOR RELEASE: 07/13/2001

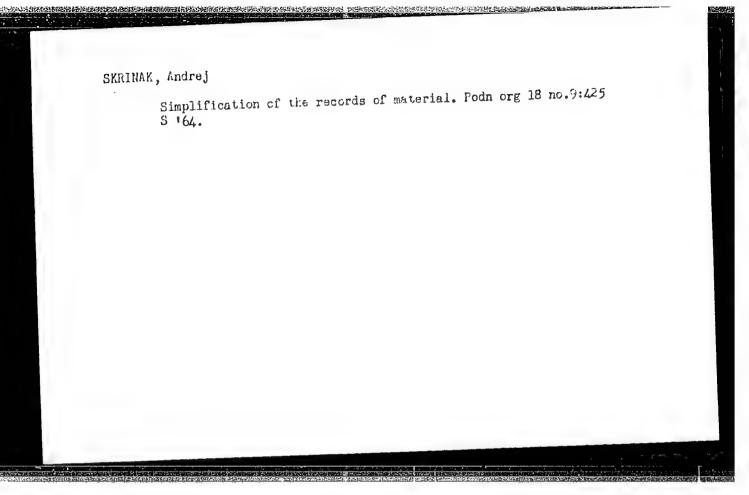
KUZNETSOV, A.V.; LAPIDUS, M.A.; LEKOMTSEV, A.S., SKRIMOV, B.F., SHELEST, P.S. BERGAUZ, P.I., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor.

[Composite crews on collective farms] Kompleksnye proizvodstvennye brigady v kolkhozakh. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1956.172 p. (MLRA 10:6)

(Collective farms)

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[Designs of polyphomic electronic musical instruments for construction by amateur] Liubitel'skie konstruktsii mnogogolosnykh elektromuzykal'nykh instrumentov. Moskva, Gos. energ. izd-vo, 1961. 71 p. (Massovaia radiobiblioteka, no.407) (Musical instruments, Electronic)



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Conference on hard facing in welding high-speed steel, repairing tools, and weld-on processes, p. 85, ZVARANIE (Ministerstvo hutneho prumyslu a rudnch bani a Ministerstvo strojarstva) Bratislava, Vol. 3, No. 3, Apr. 1954

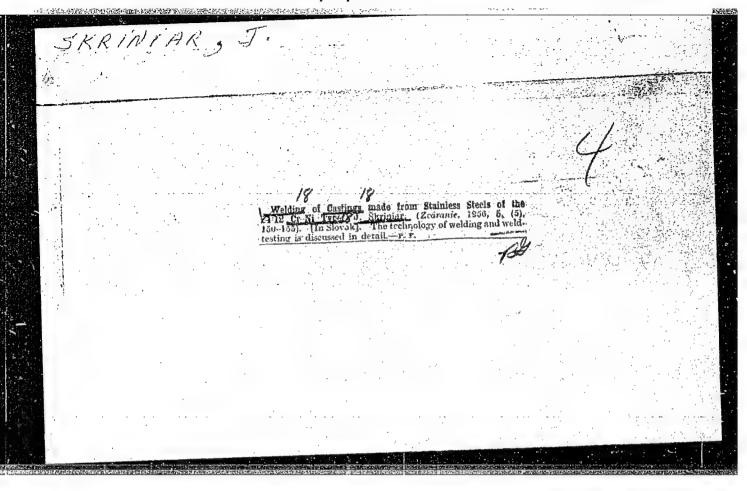
SOURCE: East European Accessions List (EFAL) Library of Congress, Vol. 4, No. 12, December 1953

STRINELL, J.

A processed for stondardized designation of welding electrodes. p. 126.

Vel. 5, no. 1, 1956 ZVARAOSHY SEORITK Brutisluva, Ozechoslovekia

Source: East American Accession List. Library of Congress Vol. 5, No. 3, August 1956



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New machinery and apparatus at the exhibition of Soviet National Economy Achievements in Moscow. Zvaranie 11 no.12:329-331 D

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1. Welding Research Institute, Bratislava.

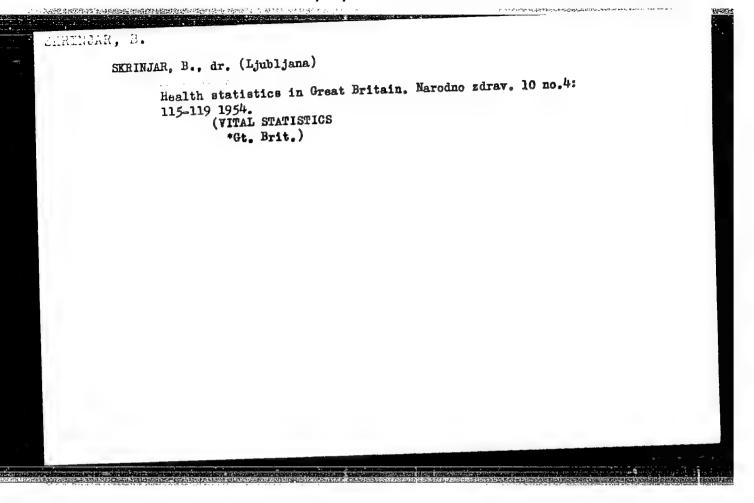
SKRINIAR, Jan, inz. CSc.

Usability of electrodes for surfacing case-hardening elements.

Zvaranie 14 no.1:6-11 Js 165.

1. Research Institute of Welding, Bratislava.

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SKRINJAR, Boga

Public health in Slovenia in the light of preventive medicine. Zdrav. vest., Ljubljana 24 no.9-10:354-358 1955.

1. Centralni higienski zavod - direktor Dr. Marijan Ahcin.
Oddelek za zdravstveno stitistiko - nacelnik Dr. Boga Skrinjar.
(PUBLIC HEALTH,

in Slovenia, prev. med. (S1))
(MEDICINE, PREVENTIVE,
in Slovenia, relation to public health (S1))

The Committee of the

Section (In comp); Given Reads

Country:

Yugoslavia

Academic Degrees: Inot given]

Affiliation:

Source:

Ljubljana, Zdravstveni Vestnik, Vol XXX, No 1-2, 1961, pp 6-12

Data: "Epidemiological Aspects of Puerperal Mastitis."

Authors:

TRAMPUZ, Vladimir, Clinic for Gynscology and Obstetrics (Klinika za Ginekologijo in Porodnistvo) of the Faculty for General Medicine and Stomatology (Fakultet za Splosno Medicino in Stomatologijo), Ljubljana; Director (Predstojnik): Prof Dr F Novak

OZEMIC-TRAMPUZ, Lea (Presumed: same affiliation as for V. Trampuz)
SKRINJAR, Boga, Central Hygienic Institute (Centralni Higienski
Zavod), Ljubljana; Director (Predstojnik): Dr M Ahcin
LIKAR, Miha, Microbiological Institute (Microbioloski Institut)
of the Faculty for General Medicine and Stomatology,
Ljubljana; Director: Prof Dr M Valentincic

SKRINJAR Bozena, Dr.

Inquiry as an important activity of the antituberculosis ambulatory; results of the inquiry on the life of tuberculotics in Trbolje. Tuberkuloza, Beogr. 7 no.4:270-285 July-Aug 55.

(TUBERCULOSIS, PULMONARY, economics, living cond. of tuberculotics in Yugosl. (Ser))

SKRINNIK, M.R.; LIKHOTINSKAYA, M.V.; OCHERET, A.M.

Case of Macracanthorhynchus infection in man. Med. paraz. i paraz. bol. 27 no.4:450-451 Jl-Ag '58. (MIRA 12:2)

l. Iz parazitologicheskogo otdela Pereyaslavl' -Khmel'nitskoy rayonnoy i Kiyevskoy gprpdskoy sanitarno-epidemiologicheskoy stantsiy i Pereyaslavl'-Khmel'nitskoy mezhrayonnoy veterinarnoy bakteriologicheskoy laboratorii.

(NEMATORE INFECTIONS, case reports,
Macracathorhynchus hirudinaceus (Rus))

BCLONOV, N.I., inzh.; KGLOVANDIN, B.A., inzh.; POVKH, I.L., dekter tekha. nauk, prof.; SKEINNIK, Ye.F., inzh.

Study of the structure of magnetohydrodynamic currents using an induction-type anemometer. Izv. vys. ucheb. zav.; energ. 9 no.1:65-71 Ja *66. (MIRA 19:1)

1. Donetskiy gosudarstvennyy universitet i Donetskiy nauchocissledovatel'skiy institut chernoy motallurgii. 2. Chlen-korrespondent AN UkrSSR (for Povkh). Submitted September 19, 1986

L 38992-66 EWT(1)/EWP(m)/T-2 IJP(c)
ACC NR: AP6016910 SOURCE

SOURCE CODE: UR/0143/66/000/001/0065/0071

AUTHOR: Bolonov, N. I. (Engineer); Kolovandin, B. A. (Engineer); Skrinnik, Ye. F. (Engineer); Povkh, I. L. (Corresponding member AN UkrSSR, Doctor of technical sciences, Professor)

ORG: <u>Donetsk State University</u> (Donetskiy gosudarstvennyy universitet); <u>Donetsk Scientific-Research Institute of Ferrous Metallurgy</u> (Donetskiy nauchno-issledovatel'skiy institut chernoy metallurgii)

TITLE: Investigation of the structure of magnetohydrodynamic flows by an induction anemometer |0

SOURCE: IVUZ. Energetika, no. 1, 1966, 65-71

TOPIC TAGS: anemometer, MHD flow, high temperature instrument

ABSTRACT: The article is devoted to a description of an instrument for investigating the structure of magnetohydrodynamic flows, an induction anemometer. The principles of measuring the local velocity by the induction methods are given. The object of the investigation was a flow of a conduction fluid with a free surface situated in a comparatively strong magnetic field. The basic components of the experimental device were the liquid system, magnetic field source, and measuring equipment. The experiments carried out showed that the investigation of the advantages of the induction method of measuring the characteristics of turbulence

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UDC: 621.032 ÷621.3.082.78

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and the design features of the induction anemometer which the authors used proved to be quite fruitful and offered considerable possibilities for a thorough investigation of the structure of MHD flows at sufficiently high Hartmann numbers. With the appropriate amplifying and measuring equipment the instrument on the whole is simple and reliable in operation. The obvious advantages of this instrument are: the possibility of investigating the structure of the flows of both ordinary and Newtonian fluids in a wide range of frequencies and its noninertia. A change of velocity fluctuation almost instantly causes a change of the induced emf. Finally, the design of the sensor permits a rigorous separation of the signals induced by various components of the fluctuating velocity. Orig. art. has: 6 figures and 13

SUB CODE: 20/ SUBM DATE: 13Sep65/ ORIG REF: 002/ OTH REF: 002

Card 2/2 /5

SINEL'NIKOV, N.; GOL'BETS, M.; PICHKOV, K.; DRAUSAL', A.; MEKPASOV, V.
SKRINIKOV, N.; POGOSTKIN, S.; GARAYEV, V.; SMIRROT, V.;
MINOSYAN, I.

Useful details, Za rul. 15 no.5:insert p.12-14 My '57. (MIRA 10:6)

(Automobiles)

ACCESSION NR: AP4017963

S/0236/63/000/004/0069/0075

AUTHORS: Stasyulyavichyus, Yu. K.; Samoshka, P. S.; Skrinska, A. Yu.; Survila, V. Yu.

TITLE: Thermophysical studies of a staggered smooth pipe bundle in cross flow of compressed air

SOURCE: AN LitSSR. Trudy*. Seriya B, no. 4, 1963, 69-75

TOPIC TAGS: pipe, smooth, thermodynamics, heat exchange, heat transfer, aerodynamics, thermodynamics, bundle, Reynolds number, aerodynamics

ABSTRACT: The study has been prompted by the fact that the problem of heat exchange of a pipe bundle in an air flow at high Re numbers is not yet completely solved, thus making calculations difficult. Therefore, tests were made in the translitecate first Laboratory of Nuclear Power Engineering and Radioisotopes of the AN, Lithuanian SSSR covering heat transfer and aerodynamic resistance of staggered smooth pipe bundles in a cross flow of air in the range of Re > 105. The methods and the experimental installation for tests in air flow

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at a 25 bars pressure are described. The results of the experimental study for a seven-row bundle a x b = 2.2×1.3 in a cross air flow at Re 104 to 1.5×10^6 are presented. Graphs are plotted and criterial dependences for the calculation of heat transfer and aero-heat operation are given. It is found that at Re = 2×10^5 , the flow-bulence and intensified heat transfer (increase in Re index from 0.6 the transitional operation changes into the auto-modeling type.

ASSOCIATION: Institut energetiki i elektrotekhniki AN Litovskoy SSR (Institute of Power Engineering and Electrotechnics, AN Lithuanian

SUBMITTED: 09Feb63

DATE ACQ: 13Mar64

ENCL: 00

SUB CODE: PH

NR REF SOV: 002

OTHER: OOO

2/2

SKRINSKA, A.Yu.; STASYULYAVICHYUS, Yu.K. [Stasiulevicius, J.]

Experimental study of the effect of the irregularity of the heat transfer coefficient on the efficiency of ribbed pipes. Trudy AN Lit. SSR. Ser. B no.1:123-128 '65.

[MIRA 18:7]

FLUCKETICS 4 CHECKRICH ENCYCLAS

1. Institut emergetiki i elektrotekhniki AN Litovskoy SSR.

AUTHOR: Bayyer, V. N.; Blinov, G. A.; Bondarenko, L. M.; Yerozolimskiy, B. G.; Kercheynikov, L. S.; Mironov, Ye. S.; Naumov, A. A.; Onuchin, A. P.; Panasyuk, V. J., J., J., J., J., J., J., J., J., J.
TOPIC TAGS: high energy interaction, high energy plasma, particle physics, particle beam, charged particle beam ADSTRACT: In the Institute of Nuclear Physics, Siberian Department, Academy of Sciences SSSR, programs on high-energy particle physics are mainly concerned with work on colliding charged particle beams. The Institute considers it unsuitable Cord 1/5

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1,7301;-65 ACCESSION NF: AT5007921 for its purpose to install huge accelerators whose construction requires large resources outlaid and long time. For work on colliding electron-electron, positron-electron, and proton-proton beams, three installations are being built, which are in various stages of readiness. Work on colliding electron beams was conducted at the institute (then a laboratory of the Institute of Atomic Energy imen 1. V. Kurchatov) in the Fall of 1956, after Kerst's report on accelerators with colliding proton beams of the FFAG type. By that time Soviet scientists Had already acquired some experience in obtaining large electron currents; in particular, the mentioned laboratory had installed and then abandoned a device for the spiral storage of electrons (G. I. Budker and A. A. Naumov, CERN Symposium, 1, 76 (1956)), by which, subsequently, circulating currents of the order of 100 amperes were obtained. In 1957 two variants of this device were considered at the same time. The first one consisted of two accelerators with spiral storage and subsequent transition of the particles to synchrotron state in comparatively narrow paths. The second one had storage rings with constant magnetic field and frequent external injection because of the damping of the oscillations under the action of radiation. The first variant was more cumbersome; the second variant contained an element not developed at that time, namely a 100-kilovolt commutator of 10 kilo-amperes with nanosecond front. At the end of 1957, the first positive results were obtained Card 2/5

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with a packing discharger of 100 kilovolts, and work stopped on the variant with storage rings. Originally it was proposed to set up two devices: VEP-1 of 2×130 Mev energy, and VEP-2 of 2 x 500 Mev energy. The VEP-1 was considered as an actual model of an accelerator and as a device for conducting initial experiments at low energies. After the Panofsky report in 1958 on his work with colliding electron beams conducted in his laboratory at Stanford, construction ceased on 500-Mev storage paths and work was continued on the 2×130-Mev installation. Instead of work on colliding electron beams with energies of 500 Mev, work at the end of 1958 was conducted with colliding positron-electron beams and the planning of the VEPP-2 device was begun, whose main elements are a strong-current electron accelerator and a high-vacuum storage path of 700 Mev energy. At the present time the VEP-1 and VEPP-2 are installed in Novosibirsk. The VEP-1 is in a state of neglect, but at the end of 1964 experiments will be begun with it. Installation of the VEPP-2 has been completed. To obtain a marked effect from the application of colliding proton beams, an accelerator is needed with an energy of at least 10 Gev. Since the ordinary accelerator at such energies is a very bulky machine, it was decided to combine the idea of colliding proton beams with the creation of an iron-less impulse accelerator with very large fields and a neutralized central busbar. This latter work of creating such a machine was reported by the authors at a Moscow conference

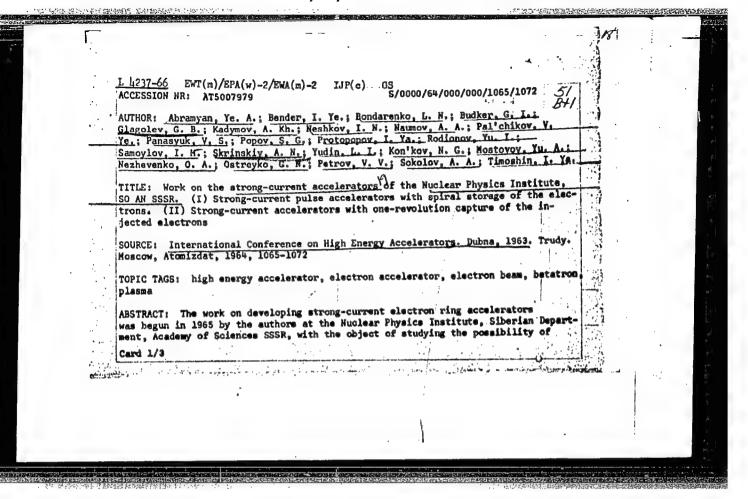
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held in 1956. The presence of a field with two directions in an iron-less accelerator with central busbar permits the acceleration of protons toward opposite sides in one machine, which makes possible the collision of protons in case of a suitable race-track. At the present time the Institute is developing a proton device with a magnetic field of about 200 kilogauss and radius of 2 meters for a particle energy of 12 Gev in the beam (equivalent energy is around 300Gev). Tests are being conducted on models, and an effective method of injection by overcharging of negative ions is under study. Also under development are an impulse electric power supply system of 100 million joules capacity and an hf power supply. Since 1958 the Institute has been conducting theoretical investigations on the limits of applicability of quantum electrodynamics [V. N. Bayyer, ZhETF, 37, 1490 (1959), and UFN, 78, 619 (1962)] for the calculation of the radiational corrections to the electrodynamic cross-sections [V. N. Bayyer and S. A. Kheyfets, ZhETF 40, 613-715 (1961) and Nuclear Physics (in print)], and on other problems of high-energy particle physics that are connected with the preparation of experiments on colliding beams [V. N. Bayyer, I. B. Khriplovich, V. V. Sokolov, and V. S. Synakh, in ZhTF, 1961]. The present report takes up under the mentioned three main headings the following pertinent topics: the accelerator-injection, storage paths, electron-optical channel,

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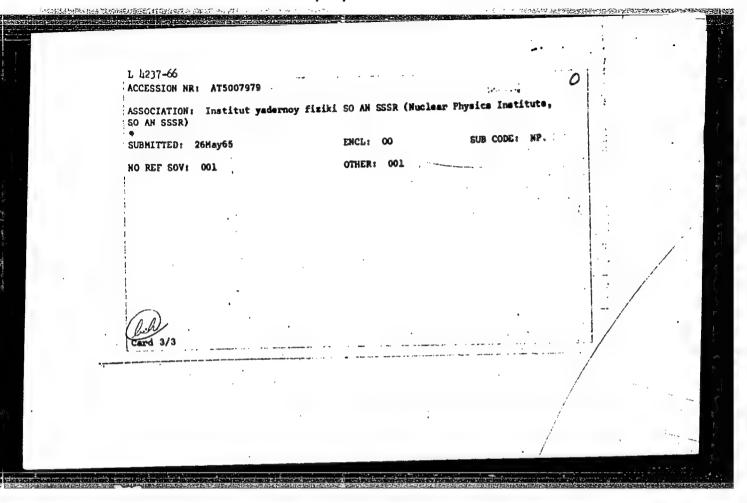
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ACCESSION NR: AT5007979

forming relativistic stabilized beams. In the laboratories of the Institute experimental studies were carried out on the four methods for obtaining large ring currents of relativistic electrons: (1) spiral method of storing the electrons in installations of the betatron type with subsequent betatron synchrotron acceleration (Budker G. I. CERN Symposium 1, 68 (1956); (2) obtaining of limiting electron currents by means of the injection of electrons from a strong-current linear accelerator into a ring chamber of large aperture with subsequent synchrotron acceleration; (3) storage of electrons in tracks (parking orbits) with constant magnetic field by means of the multiple injection of electrons from another less strong-current accelerator; this method is utilized for the storage of electrons and positrons in experiments with colliding beams (expounded in detail by G. I. Budker in the present collection, p. 274); (4) obtaining of large electron currents by means of the acceleration of electrons by a ring plasma. The present report discusses the first two methods under the following topics: (1) pulsed iron-less betatron with preliminary charge storage (B-2 device); strong-current pulsed synchrotron B-2S; pulsed strong-current betatron with spiral storage (B-3 device). (II) iron-less one-turn strong-current synchrotron (BSB); strong-current pulsed synchrotron B-3M. Orig. art. has: 7 figures.

Card 2/3



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THE PROPERTY OF THE PROPERTY O L 05822-67 IJI (c) GD 5WT(n) SOURCE CODE: UR/0000/65/000/000/0001/0014 ACC NRI AT6031467 AUTHOR: Budker, G. I.; Kushnirenko, Ye. A.; Skrinskiy, A. N.; Naumov, A. A.; Onuchin, A. P.; Popov, S. G.; Sidorov, V. A.; Tumaykin, G. M. ORG: none TITLE: Present state of research on the VEP-1 electronic storage ring SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut yadernoy fiziki. Doklady, 1965. Sostovanive rabot na elektronnom nakopitele VEP-I. 1-14 TOPIC TAGS: synchrotron, electron scattering, electron beam/VEP-1 electronic storage ring, B-2C electronic synchrotron The VEP-1 electronic storage ring consists basically of two paired ABSTRACT: high-vacuum magnetic tracks, 43 cm in radius, with a 3 x 4 cm² aperture a special B-2C electronic synchrotron/an electronic-optic channel, and a single thread system to extract the electron beam from the accelerator and insert it into the storage ring. This storage ring was designed for experiments in electron scattering with electrons of an energy of 2 x 130 Mev. It is now being used in

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ACC NR: AT6031467



experiments with electron scattering in a 45—90 degree angle. Descriptions are given of the installation, the process of electron storage, and radiance measurements. The results of the first experiments on electron scattering show that divergences from the reference curve of the Moller electron scattering do not exceed the statistical error. Orig. art. has: 8 figures.

SUB CODE: 09, 20/ SUBM DATE: none/ ORIG REF: 005/

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CIA-RDP86-00513R001651120015-9

L 25792-66 IJP(c) EWT(m-) ACC NR: AP6016376 SOURCE CODE: UR/0089/65/019/006/0498/0502 AUTHOR: Budker, G. I.; Kushnirenko, N. A.; Naumov, A. A.; Onuchin, A. P. Popov, S. G.; Sidorov, V. A.; Skrinskiy, A. N.; Tumaykin, G. M. ORG: none TITLE: Status report on the VEP-1 electron storage ring SOURCE: Atomnaya energiya, v. 19, no. 6, 1965, 498-502 TOPIC TAGS: electron scattering, synchrotron, electron energy/B-25 synchrotron ABSTRACT: This paper updates the report given at the International Conference on Accelerators held in Dubna in 1963 and describes the ABSTRACT: work carried out since that time. In the last two years the following work has been accomplished: accumulation of electrons simultaneously on two paths, study of certain interaction effects between two beams, and measurement of the luminance of the machine from the electron-electron scattering in the range of angles from 45 to 90 deg. The VEP-1 storage ring, designed to operate at electron-electron energy of 2 X 130 Mev, is connected to a B-25 synchrotron, Tas shown in a schematic diagram. The magnetic paths are 43 cm in dia and the aperture is 3 X 4 cm. All experiments were made at electron energies; of 43 Mev and resonator voltage of 5 kv. The average injection current pulse did not exceed 10 ma, although more than 100 ma were available. Injection mode stability left much to be desired. Results of the experiments are shown in a series of graphs. Further experiments are planned at electron energies of 100 Mev. Urig. art. has! 8 figures SUB, CODE: 20 / SUBM DATE: none / ORIG HEF: 005 [JPRS]

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CIA-RDP86-00513R001651120015-9

IJP(c) L 25793-66 EWT(m) SOURCE CODE: UR/0089/65/019/206/0502/0505 AP6016377 ACC NR AUTHOR: Auslender, V. L.; Blinov, G. A.; Budker, G. I.; Karliner, M. M.; Kiseley, A. V.; Livshits, A. A.; Mishnev, S. I.; Naumov, A. A.; Panasyuk, V. S.; Pestov, Yu. N.; Sidorov, V. A.; Sil'vestrov, G. I.; Skrinskiy, A. N.; Khabakhnashev, A. G.; 56 Shekhtman, I. A. B ORG: none TITLE: Status report on the VEPP-2 positron-electron storage ring SOURCE: Atomnaya energiya, v. 19, no. 6, 1965, 502-505 TOPIC TAGS: electron positron pair, electron interaction, synchrotron, electron scattering, luminescence, betatron/B-3M synchrotron ABSTRACT: The VEPP-2 was designed for electron-positron interaction experiments at energies of 2 X 700 Mev. as reported in the "Proceedings of the International Conference on Accelerators", Dubna, 1963. Work accomplished in the two years following that conference includes the following: start-up of the synchrotron injector, accumulation of large electron currents in the storage ring, study of instability related to the interaction of the beam with the resonator, and the accumulation of positrons. At present the VEPP-2 is being used to study the interaction of two beams and to measure the luminessence from the small-angle positron-electron scattering. An over-all schematic diagram of the VEPP-2 is shown, including its connection to a B-3M synchrotron. The latter operates in light-duty mode at 200 Mev, and its 100 ma output pulse is shorter than 20 nsec. Its energy scattering is less than 2% and pulse repetition frequency is about 3 cycles. The storage ring is a weakly focuseing racetrack with four identical rectilinear segments 60 cm long. The equilibrium orbit radius is 150 cm and the aperture is Card 1/2

8 X 14 cm. One segment site section is a repositrons. The experimental in the control of the con	esonator; the recriments made and the other ruless.	emaining tw nd the oper est that wh et of the i	eation of the betatron itial osc	he equipment n oscillation	are descri ons are exci	bed ited
in a time interval m has: 4 figures. [3]	nuch shorter the JPRS]	an the natu	rai radiat	Tou decay of		arc.
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, (4)	39/66/020/003/0217/0220 49
AUTHOR: Derbenev, Ya. S.; Mishnev, S. I.; Skrinskiy, A. N.	
ORG: none	*/
TITLE: Effects of electromagnetic interaction of particles wit	th a colliding plasmoid
SOURCE: Atomnaya energiya, v. 20, no. 3, 1966, 217-220	
TOPIC TAGS: plasmoid acceleration, betatron accelerator, syncle plasma electron oscillation	
ABSTRACT: The authors investigate the influence of the electrocolliding plasmoid on the betatron oscillations of particles of differential equations are written out for the one-dimensional particle periodically acted upon by a colliding plasmoid of girthe effect of various initial conditions is discussed. Special effects due to nonlinearity of the transverse component of the plasmoid. The conditions under which resonances appear are deresponding to given resonances are approximately evaluated. The sitic equilibrium orbits is taken into account. Instability deplasmoids on the synchrotron oscillations is shown to be imported electron systems but not for electron-positron systems. Original 13 formulas. SUB CODE: 20/ SUBM DATE: 22Nov65/ ORIG REF: 004	oscillations of a ven configuration, and l attention is paid to field of the colliding rived and effects cor- he influence of para- ue to the action of the tant for electron-
DOD CODE: LOY DODE: 25-12-1	
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L 05821-67 EWT(m)	SOURCE CODE:	JR/0000/65/000/000		
AUTHOR: Auslender, Kiselev, A. V.; Livshi				
Kiselev, A. V.; Livshi Pestov, Yu. P.; Sidoro pashev, A. G.; Shekhtı	ov, v. A.; Sil vestio	v, G. I.; Skrinskiy,	4,	4
ORG: none			É	+1
TITLE: Present state SOURCE: AN SSSR. S		Institut vadernov fiz	iki. Doklady,	1965.
SOURCE: AN SSSR. S Sostoyaniye rabot na p TOPIC TAGS: electro /B-3M synchrotron, V	ozitron-elektronnom n positron, electror	positron storage ri		1
ABSTRACT: The VEF experiments on the int 2 x 700 Mev. It is based	PP-2 electron-positrons	on storage ring was of B-3M synchrotro	n land is equip	m to

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It has electron-optic channels and a converter to transform an electron beam into a positron beam. It now works at an energy of 200 Mev. Basic studies of the process of insertion into the storage ring were made at an energy of 100 Mev. A detailed description is given of the installation and storage of electrons and positrons. A system of spark chambers, comprising a 2 x 0.7 solid angle steradian close to the vertical direction, was prepared for experiments on the interaction of positrons and electrons. Efforts are now being made to increase the accumulation speed of positrons. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001/

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Card 2/2

07063-67 EiT(m) IJP(c) ACC NR: AP6051651 UR/0089/66/020/003/0210/0213 SOURCE CODE: AUTHOR: Auslender, V. L.; Karliner, M. M.; Naumov, A. A.; Popov, S. G.; Skrinskiv A. N.; Shekhtman, I. A. ORG: none TITLE: Phase instability of an intense electron beam in a storage ring SOURCE: Atomnaya energiya, v. 20, no. 3, 1966, 210-213 TOPIC TAGS: storage ring, electron beam, automatic stabilization equipment, phase modulation, electron accelerator/ VEPP-2 storage ring ABSTRACT: The authors consider radial-phase self-oscillations in storage rings at Large beam currents. Conditions for the stability are obtained in the case of arbitrary frequency characteristics of the accelerating system. It is shown that stability conditions derived in earlier studies, stating that it is sufficient to tune the accelerating resonator to a frequency somewhat lower than the generator frequency in order to prevent self excitation of phase oscillations at arbitrarily large beam currents, are not borne out in practice, and that other factors must be taken into account in a more rigorous stability analysis. Allowance is also made for the interaction between the beam and the accelerating system and other elements of the vacuum chamber at harmonics of the electron-bunch revolution frequency. Some results of an experimental investigation of self excitation of phase oscillations in the storage rings of the Institute of Ruclear Physics of the Siberian Department of AN SSSR are Card 1/2 UDC: 621.384.60

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and B. A. Lazare	2). An example where is described. The authenko, A. A. Litvinov, I. M. Tumaykin for helpformulas.	nors thank G. I. Budk I. K. Sedlyarov, T. I	er for continuous inte	rest
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07064-67 EWT(m) IJP(c) CC NR: AF6021622 (N)	SOURCE CODE: UR/0089/66/020/003/0213/0217
, (//	. N.; Mishnev, S. I.; Naumov, A. A.; Popov, S.
RG: none	46
ITLE: Experimental data on the intera	ction of beams during collision
OURCE: Atomnaya energiya, v. 20, no.	3, 1966, 213-217
OPIC TAGS: A electron collision, storage torage ring	3, 1966, 213-217 se ring, positron/ VEP-1 storage ring, VEPP-2
ects, obtained with the VEP-1 (electro	ninary review of results of beam collision ef- on-electron) storage ring and the VEPP-2
eams in the storage rings are presente	installations and the main parameters of the delsewhere (Atomnaya energiya, v. 19, 498 and
<pre>)2, 1905; E. I. Zinin et al., present f the data pertain to the VEP-1 storag</pre>	source, p. 220 [Acc. Nr. AP6021624]). Most cring at colliding beam energies of 43 Mev.
he data presented include the diagram	of resonances in the working region of the
agnetic field, photographs of differen	it spreading effects in the beams, the distribu- in one beam with and without the collisions
ith the other beam, the dependence of	the electron lifetime on the revolution fre-
uency and on the colliding-beam curren	nt, and the dependence of the partial electron meena in the VEPP-2 storage ring were essential-
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L 07062-67 EWT(a) LJP(c) ACC NR: AP6021624 (N) AUTHOR: Zinin, E. I.; Korobeyniko	SOURCE CODE: UR/0089/66/020/003/0220/0223/ v, L. S.; Kulipanov, G. N.; Lazarenko, B. L.; Mat-
veyev, Yu. G.; Popov, S. G.; Skrin	skiy, A. N.; Starodubtseva, T. P.; Tumaykin, G. M.
ORG: none	32
TITLE: Control and regulation systelectron-electron storage ring	tem for the electron beam parameters in the VEP-1
SOURCE: Atomnaya energiya, v. 20,	no. 3, 1966, 220-223
TOPIC TAGS: electron beam, electron synchrotron radiation	on accelerator, storage ring, plasmoid acceleration,
adjustment and physical research of Budker et al. (Atomnaya energiya v. the magnitude of the injected curre sions of the beam, its energy and exit from the electron-optical char phase difference between the input first revolutions of the captured or radiation with a photomultiplier. with the aid of the synchrotron rad	lefly the main systems used for different stages of the VEP-1 assembly, first described by G. I. 19, 498, 1965). The parameters investigated were ent, the angular divergence and transverse dimensergy spread, and the position and angle at the mel. The number of injected particles and the and output were measured with lead probes. The current were observed by recording the synchrotron The captured and stored currents were also measured liation. The radial position of the orbits was contained by changing the frequency of the accelerating
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are briefly des special electron portional to the	ic system whi current in t	ich determi the track.	orig. art.	has: 6	derivative figures,	of a sig	nal pro-	
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UB CODE: 20/	SUSM DATES	·	ORUS REF		VAR RAFT			
OB CODE: 20/	SOR DATE:	·	ORDIS REF		VAR RAFT			

SKRINSKIY, Yu.M., inzh.; KAMBULOV, V.A.

Comments on I.A. Raiskin's article. Prom. stroi. 39 no. 1:60-62
'61. (MIRA 14:1)

(Gutters) (Roofing, Concrete)

SKRINSKIY, Yu.M., inzh.

Elements of a building made of reinforced-concrete panels in an earthquake area. Bet. i zhel.-bet. 8 no.3:105-109 Mr '62. (MIRA 15:3)

(Precast concrete construction) (Earthquakes and building)

SKRINSKIY, Yu., MKUKEBAYEV, M., kand.tekhn.nauk

Unified frame for public buildings in earthquake districts. Zhil. stroi. no.7:10-12 '62. (MIRA 15:9)

1. Glavnyy inzhener masterskoy instituta Kazgorstroyproyekt (for Skrinskiy).

(Earthquakes and buildings)

NAUMOV, A.; GARVARDT, V., konstruktor; SKRINSKIY, Yu., Minzh.

Design and construction of large-panel apartment houses. Zhil.
stroi. no.8:9-11 '62. (MIRA 15:9)

1. Glavnyy arkhitektor proyektov instituta Kazgorstroyproyekt (for Naumov).

(Alma-Ata-Apartment houses)
(Precast concrete construction)

2000年代,在1918年代的中国中国共和国和国际中国的社会大型中国和国

SKRINTAR, J.

Renovtion of gear wheels by hard facing. p. 338 Welding boilers in the USSR. p. 345 ZVARANIE Vol. 4, No. 11, Nov. 1955 Czechoslovakia

SOURCE: EAST EUROPEAN LISTS Vol. 5, No. 7 July 1956

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PHASE I BOOK EXPLOITATION

80V/4163

Moscow. Tsentral'nyy aero-gidrodinamicheskiy institut

- Shumoglusheniye (Noise Suppression) Moscow, Chorongiz, 1959. 128 p. (Series: Promyshlennaya aerodinamika, sbornik, no. 14) Errata slip inserted. 1,100 copies printed.
- Ed. (Title page): Ye. Ya. Yudin; Ed. (Inside book): A. S. Ginevskiy, Candidate of Technical Sciences; Ed. of Publishing House: T. A. Valedinskaya; Tech. Ed.: N. A. Pakhlikova; Managing Ed.: A. S. Zaymovskaya, Engineer.
- FURPOSE: This collection of articles is intended for engineers, technicians, and scientific workers specializing in industrial aerodynamics and noise suppression of aerodynamic installations.
- COVERACE: The collection contains papers on problems associated with noise suppression of aerodynamic installations. The subjects covered include: the basic parameters of noise suppressors, jet noise, the aerodynamic noise of rotating rods, noise suppressors for large ventilating systems, and methods used in accustical research. No personalities are mentioned. All articles but one are accompanied by references most of which are Soviet.

Card 1/3

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ACCESSION NR: AP4041414

\$/0179/64/000/003/0021/0028

AUTHOR: Belotserkovskiy, S. M.; Skripach, B. K.; Tabachnikov, V. G.

TITLE: Determining rotary resistance derivatives in wind tunnels

SOURCE: AN SSSR. Izv. Mekhanika i mashinostroyeniye, no. 3, 1964, 21-28

TOPIC TAGS: resistance derivatives, rotary derivatives, rotary resistance derivatives, wind tunnel test

ABSTRACT: Some special features of experiments determining the rotary resistance derivatives for steady or damped harmonic oscillation of a model at a constant average stream velocity and small oscillation amplitude are discussed. Rotary resistance derivatives of aerodynamic forces and moments are determined analytically from experimentally established relationships between aerodynamic loads acting on the model and kinematic parameters of the model's motion. The cases of oscillation of a model with a rigid coupling (dynamometric method), when kinematic parameters of model motion do not

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ACCESSION NR: AP4041414

depend on acting forces, and of oscillation with elastic coupling (kinematic method), when these parameters depend on acting forces, are analyzed. Two alternatives of the kinematic method, the method of forced vibrations and the method of free vibrations, are also analyzed. Data of experimental investigations of rotary and translational oscillation of a model of a rectangular wing at subsonic speeds by dynamometric and both kinematic methods are compared in diagrams with results of theoretical analysis obtained by the linear theory, showing a fair agreement among all methods. Orig. art. has: 5 figures and 25 formulas.

ASSOCIATION: none

SUBMITTED: 14Feb64

ATD PRESS: 3056

ENCL: 00

SUB CODE: ME

NO REF SOV: 003

OTHER: 001

Card, 2/2

 $\frac{L^21795-65}{SSD/ASD(f)-3/AFTC(a)}$ FS(m)/EWT(1)/EWP(m)/EWG(v)/T-2/FCS(k) Pd-1/Pe-5 AFWL/AEDC(a)/

ACCESSION NR: AP5002603

5/0179/64/000/005/0140/0141

AUTHOR: Belotserkovskiy, S. M. (Moscow); Skripach, B. K. (Moscow); Tabachnikov, V. G. (Moscow)

TITLE: Determining unsteady aerodynamic properties of cones

SOURCE: AN SSSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 5, 1964, 140-141

TOPIC TAGS: subsonic flow, rotary resistance derivative, resistance derivative, rotary resistance derivative coefficient, flow over cone, thin wing linear theory

ABSTRACT: The results of an experimental investigation of the coefficients of rotary resistance derivatives of acrodynamic forces and moments for sharp-nosed cones at low subsonic speeds are presented. The experiments were carried out on a dynamometric test bench with a rigid coupling. The cone was subjected to harmonic torsional vibrations about the transverse z-axis at an angular frequency ρ and amplitude α^* . The experimental data obtained for cones are compared with data obtained by applying linear theory to delta wings. The results showed that rotary resistance derivatives are

Card 1/2

FEDYAYEVSKIY, K.K., doktor tekhn.nauk; SKRIPACH, B.K., kand.tekhn.nauk

Efficient use of flaps on activated lateral fins for the stabilization of ships. Sudostroenie 30 no.1:8-9 Ja '64. (MIRA 17:3)

CKRIPACH, T. K.

PA 18T84

USSR/Chemistry - Systems, Ternary Chemistry - Solubility

Jun 1946

"Solubility Studies in the Ternary System: Ethyl Alcohol-Water-Vinylidene Chloride," T. K. Skripach, M. I. Temkin, 4 pp

"Zhur Fiz Khim" Vol XX, No 6

CH₂ was derived from heating C Cl₂ to 31.5 degrees at 760 mm pressure. Ethyl alcohol, with boiling temperature of 78.5 degrees at 760 mm, and twice-distilled water were used. Diagrams of equipment and tables of results. Investigation of the ternary system (CCl₂ alcohol, water at 20 degrees) produced a bincdal and a system of nodes.

18T84

SOV/79-28-6-45/63 AUTHORS: Baranayev, M. K., Zinov'yev, Yu. M., Skripach, T. K.,

Soborovskiy, L. Z.

TITLE: The Synthesis of Organophosphorus Compounds From Hydrocarbons

and Their Derivatives (Sintez fosfororganicheskikh soyedineniy iz uglevodorodov i ikh proizvodnykh) VIII. The Investigation of Oxidation of Phosphorastrichloride With Oxygen (VIII. Izucheniye okisleniya trekhkhloristogo fosfora kislo-

rodom)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp. 1628-1631

(USSR)

ABSTRACT: There are, in fact, very few papers dealing with the oxida-

tion of phosphorus trichleride with exygen. Only Remsen (Remzen) points to the possibility of exidizing this chloride with exemised exygen. A patent is mentioned (Ref 9) in which the "combustion" at 150° of a gas mixture of PCl, and exygen is described (molar ratio 2 : 1). The observations made by the authors show that the exidation of phosphorus trichloride as well as that of the compounds synthesized from

Card 1/3 it; which correspond to the formula XPCl, (where X=chlorine,

304/79-28-6-45/63

The Synthesis of Organophospherus Compounds From Hydrocarbons and Their Derivatives, VIII. The Investigation of Oxidation of Phosphorustrichloride With Oxygen

aryle and alkyl radicals, alkoxyle, dialkylamine and other monovalent organic groups) with a single passage of gaseous exygen or air can be obtained by means of the mentioned reagents. Earlier the assumption was made that the oxidation chlorophosphination as well as the oxidation of phosphorus trichloride have radical character. According to this assumption in the oxidation of phosphorus trichloride first the binding of oxygen to this substance takes place. The formed compound can be either regarded as biradical (Cl.P00) or as bipolar ion (Cl. P00):PCl. + 02 \longrightarrow Cl.3P00. This adduct converts immediately with a second molecule PCl, and forms phospheroxychlorids: Cl.POO \div PCl, \longrightarrow 2POCl, When a hydrocarbon (RH) is present in the resttion mixture it can be included in the reaction. The biradical ClaPOO forms the organic radical R° and the radical OH:Cl, POO + RH ->POCl, + + R'+ OH on the occasion of the collision with the molecule RH. Either of these radicals can lead to the formation of the chlorine anhydrides of the corresponding alkanephosphinic acids. The initial stage of the oxidation of phosphorus tri-

Card 2/3

SOV/79-28-6-45/63 The Synthesis of Organophosphorus Compounds From Hydrocarbons and Their Derivatives. VIII. The Investigation of Oxidation of Phosphorustrichloride With Oxygen

chloride with oxygen is a heterogeneous process dependent on the velocity of solution of the oxygen. The oxidation velocity of phosphorus trichloride with gaseous oxygen does in no case depend on the temperature. The activation energy of this oxidation is very small which fact points to the assumed free-radical character of this process. There are 4 figures and 11 references, 10 of which are Soviet.

SUBMITTED:

May 29, 1957

1. Phosphorus chlorides--Oxidation

Card 3/3

	EWT(1)/EWA(j)/EWT(m)/EPF(c)/EWF		
ACCESSION NR	AP5011678	UR/0195/65/006/0	002/0196/0202
AUTHORS: And	kiyenko, K. A.; Skripach, T. K.;	35	14,50
ceased)		natural of the training	4, 4, 1
	eactivity of ester derivatives of terase and hydroxyl ions	of phosphoric and thicaphosp	horic soids 7
SOURCE: Kine	tika i kataliz, v. 6, no. 2, 196	55, 196-202	47
	cholinesterase, insecticide, photics, reaction mechanism, inhibi		c soid,
phosphoric an	antitative studies of the reacti d thionphosphoric acids (FOS) we ilable information on the inhibi	ere carried out in order to	extend the
W (()	inesterase (Ch). Rate constants	, activation energies, and structurally different ROS	preexponen-
17,55 cides on chol	I'OT the reactions of a number of		
tial factors	for the reactions of a number of of R_iO O R_iO O	R _i O S R _i O S	
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"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001651120015-9

L 60954-65 ACCESSION NR: AP5011678 with Ch and OH ions were studied. The inhibition rate constants were determined from the relationship $k_1 = \frac{0.692}{t_{0.0}/FOS}$, where $t_{0.5}$ is the time required to destroy one half of the original Ch, and /FOS/ is the initial concentration of FCS. The pseudomonomolecular hydrolysis rate constants were determined from the relationship $K_1 = \frac{2.3}{4} \cdot (2 - \lg a)$, where t is the time and a the percentage concentration of unreacted The second order rate constants were determined from FOS. The second order rate constants were determined from $\lambda_{\parallel} = \frac{1}{(OH)} = \frac{1}{0.025}$. The reaction mechanism is explained as a nucleophilic substitution of $S_{\rm H}^2$, after J. Dostorovsky and H. Halmann (J. Chem. Soc., 516, 1953). The kinetic characteristics were found to change with change in the structure of FOS. The authors thank Y. A. Yakovley for helpful advice concerning the inhibition mechanism of cholinesterase. Orig. art. has: 1 table and 3 equations. ASSOCIATION: none ENCL: OC SUBMITTED: 21Feb63 OTHER: 015 NO REF SOV: CO6

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001651120015-9

SKRIPACHEV, M.

Finding potentialities for the increase of labor productivity in the plastics industry. Biul.nauch.inform; trud i zar.plata (MIRA 13:1) no.8:6-9 '59. (Plastics industry--Labor productivity)

VISHNEVSKIY, I.I.; FRENKEL', A.S.; SKRIPAK, V.N.

Heat conductivity of chrome spinelide. Fiz. tver tela 5 no.9: (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov, Khar'kov.

5/0131/64/000/005/0227/0231

ACCESSION NR: APh038903

AUTHORS: Vishnevskiy, I. I.; Skripak, V. N.

TITLE: Thermal conductivity of refractories containing graphite

SOURCE: Ognoupory*, no. 5, 1964, 227-231

TOPIC TAGS: refractory, graphite refractory, thermal conductivity, thermal electromotive force, grain orientation, platinorhodium thermocouple, transformer LATR 1, stabilizer SN 0.75, potentiometer P 306

ABSTRACT: An experimental device for testing thermal conductivity of graphite-containing refractories was constructed by the UNIIO (Ukrainian Scientific Research Institute of Refractories). Its design, based on the common cylindrical shell method, is shown in Fig. 1 on the Enclosures. Provisions are made for testing cyclindrical samples 55 mm in diameter and 180 mm long with a central opening 16 mm in diameter. A spiral heater consisting of EI-626 wire wound around a corundum tube was placed in the central opening, insulated by asbestos and light chamotte. Electric power was supplied by a transformer LATR-1 from the regulator SN-O.75. All measurements were taken at temperatures up to 11500 with platinum-rhodium thermo-

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ACCESSION NR: APLO38903

couples placed as shown in Fig. 2 of the Enclosures. Thermal conductivity coefficients were determined at 100-degree intervals in the temperature range 700-1100C and were calculated according to the formula:

$$\Delta = \frac{Q \ln \frac{r_s}{r_1}}{2\pi i \Delta t}$$

where: Q - radial stream of heat generated per unit of time by a heater section with the length ℓ , Δ t - temperature difference between the points r_1 and r_2 . Maximum theoretical error varied from 6-8%. Thermoelectromotive force was measured (accuracy to 0.001 mv) with a P-306 potentiometer and a mirror galvanometer (10-7 v/mm). The results showed that thermal coefficients of graphite were different in the directions parallel and perpendicular to the direction of material pressing. This was explained by the grain orientation originating in the process of pressing. To increase the thermal conductivity of a graphite-containing refractory lining the thermal flux should progress perpendicular to the direction of pressing. This would produce an approximate 40% increase in the conductivity. If the thermal flux must proceed parallel to the pressing direction, an attempt

Card 2/5

ACCESSION NR: AP4038903

should be made to obtain a fine texture of refractory material during its production and thus to increase its $\lambda_{||}$. The experimental specimens were presented, and some of their indexes were determined by I. P. Safronova. Orig. art. has: 2 tables, 5 figures, and 1 formula.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (Ukrainian Scientific Research Institute of Refractories)

SUBMITTED: 00

DATE ACQ: OSJun64

ENCL: 02

SUB CODE: MM

NO REF SOV: 009

OTHER: 002

Card 3/5

